

CURRENT LISTING OF THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 1. (Cancelled)

1 2. (Previously Presented) The method of claim 4, wherein detecting the error occurs
2 during a discontinuous transmission mode.

1 3. (Previously Presented) The method of claim 4, further comprising receiving a
2 pilot channel from the mobile unit over the link, the control signaling comprising the pilot
3 channel, wherein detecting the error in control signaling comprises detecting the error in the pilot
4 channel from the mobile unit.

1 4. (Previously Presented) A method of performing power control in a mobile
2 communications system having a base station and a mobile unit, comprising:

3 detecting an error in control signaling transmitted over a reverse link between the
4 base station and the mobile unit when traffic channels are not being communicated in the reverse
5 link; and

6 adjusting a power control element based on the detected error,
7 wherein adjusting the power control element comprises adjusting a target ratio of
8 energy per bit to noise spectral density based on the detected error in the control signaling.

1 5. (Cancelled)

1 6. (Previously Presented) The method of claim 4, wherein detecting the error
2 comprises detecting an error in the control signaling over a given period of time.

1 7. (Previously Presented) The method of claim 4, wherein detecting the error
2 comprises detecting an error in a given number of samples of the control signaling.

1 8. (Previously Presented) The method of claim 7, wherein detecting the error
2 comprises detecting an error in a given number of bits of the control signaling.

1 9. (Previously Presented) The method of claim 4, further comprising
2 communicating a power control command based on the power control element to affect
3 transmission power of the mobile unit.

1 10. (Previously Presented) The method of claim 4, wherein detecting the error
2 comprises detecting a bit error rate in the control signaling of the reverse link.

1 11. – 12. (Cancelled)

1 13. (Previously Presented) The method of claim 4, further comprising receiving the
2 control signaling over a reverse link according to a code-division multiple access protocol.

1 14. (Cancelled)

1 15. (Previously Presented) The method of claim 4, further comprising detecting that
2 the mobile unit is in a discontinuous transmission mode, wherein detecting the error and
3 adjusting the power control element are performed while the mobile unit is in the discontinuous
4 transmission mode.

1 16. (Original) The method of claim 15, wherein detecting that the mobile unit is in
2 discontinuous transmission mode comprises detecting a power level of a traffic channel
3 transmitted by the mobile unit.

1 17. (Original) The method of claim 15, wherein detecting that the mobile unit is in
2 discontinuous transmission mode comprises detecting a state of a predetermined information
3 field.

1 18. (Original) The method of claim 17, wherein the information field comprises one
2 or more power control bits of a data frame transmitted by the mobile unit.

1 19. (Previously Presented) The method of claim 15, wherein adjusting the power
2 control element is based on the detected error if the mobile unit is detected to be in the
3 discontinuous transmission mode, the method further comprising adjusting the power control
4 element based on a frame error rate of traffic channels when the mobile unit is detected to be not
5 in discontinuous transmission mode.

1 20. (Previously Presented) A system for use in a mobile communications system,
2 comprising:

3 a receiver to receive control signaling and traffic signaling from a mobile unit;
4 and

5 a controller to:
6 detect whether the mobile unit is in discontinuous transmission mode,
7 detect for error in the received control signaling from the mobile unit and
8 to adjust a power control condition based on detected error in the received control signaling in
9 response to detecting that the mobile unit is in the discontinuous transmission mode, and
10 detect for error in the traffic signaling from the mobile unit and to adjust
11 the power control condition based on detected error in the traffic signaling in response to
12 detecting that the mobile unit is not in the discontinuous transmission mode.

1 21. (Previously Presented) The system of claim 20, wherein the control signaling
2 comprises a pilot channel, and the controller is adapted to detect an error in the pilot channel and
3 to adjust the power control condition based on the detected error in the pilot channel in response
4 to detecting that the mobile unit is in the discontinuous transmission mode.

1 22. (Original) The system of claim 21, wherein the receiver is adapted to receive
2 code-division multiple access control signaling.

1 23. (Original) The system of claim 22, wherein the receiver is adapted to receive IS-
2 2000 control signaling.

1 24. (Previously Presented) The system of claim 20, wherein the traffic signaling is
2 not transmitted during discontinuous transmission mode.

1 25. (Cancelled)

1 26. (Previously Presented) The system of claim 20, wherein the control and traffic
2 signaling are communicated in a reverse link between the mobile unit and a base station.

1 27. (Cancelled)

1 28. (Previously Presented) The system of claim 20, wherein the power control
2 condition comprises a target ratio of energy per bit to noise spectral density.

1 29. (Cancelled)

1 30. (Previously Presented) An article comprising one or more machine-readable
2 storage media containing instructions for performing tasks in a mobile communications system,
3 the mobile communications system having a mobile unit, a base station, and a link between the
4 mobile unit and base station, the instructions when executed causing a controller to:

5 determine whether the mobile unit is in discontinuous transmission mode;

6 detect for one or more errors in control signaling received over the link;

7 adjust a power control element based on the detected one or more errors in the
8 control signaling if the mobile unit is in the discontinuous transmission mode;

9 detect for one or more errors in traffic signaling received over the link; and

10 adjust the power control element based on the detected one or more errors in the
11 control signaling if the mobile unit is not in the discontinuous transmission mode.

1 31. (Previously Presented) The article of claim 30, wherein the one or more storage
2 media contain instructions that when executed cause the controller to increase a target ratio of
3 energy per bit to noise spectral density if an error rate exceeds a threshold.

1 32. (Original) The article of claim 31, wherein the one or more storage media contain
2 instructions that when executed cause the controller to decrease the target ratio if the error rate
3 does not exceed the threshold.

1 33. – 36. (Cancelled)

1 37. (Previously Presented) The article of claim 30, wherein detecting one or more
2 errors in the control signaling comprises detecting one or more errors in control signaling
3 received over a reverse wireless link from the mobile unit,

4 wherein adjusting the power control element based on one or more errors in the
5 control signaling of the reverse wireless link if the mobile unit is in discontinuous transmission
6 mode.

1 38. (Previously Presented) The article of claim 30, wherein detecting one or more
2 errors in the control signaling comprises detecting one or more errors in a pilot channel received
3 over a reverse wireless link from the mobile unit,

4 wherein adjusting the power control element comprises adjusting the power
5 control element based on one or more errors in the pilot channel if the mobile unit is in
6 discontinuous transmission mode.